

PATENT ABSTRACTS OF JAPAN

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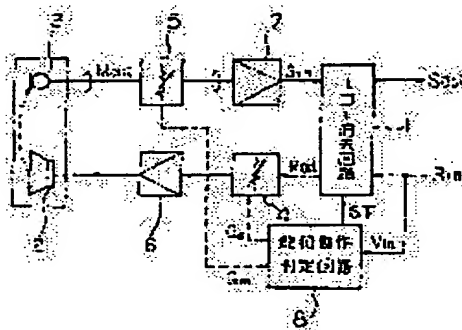
(54) ACOUSTIC ECHO CANCELLER

(57)Abstract:

PURPOSE: To prevent undesired deterioration in a transmission voice output due to an echo cancelling circuit when an echo path reaches a nonlinear state by providing a saturation deciding circuit and stopping the adaptive operation of the echo cancelling circuit when the saturating state of the acoustic echo path is detected, thereby obtaining a stable echo cancelling operation.

CONSTITUTION: A saturation deciding circuit 8 is added to an acoustic echo canceller in which manual variable resistors 4, 5 and amplifiers 6, 7 are respectively inserted between an echo cancelling path 1 and a speaker 2 and a microphone 3 which from an acoustic echo path. The saturation deciding circuit 8 monitors the setting state of the speaker variable resistor 4 and the microphone variable resistor 5, that is, the gain and outputs an adaptive operation stopping signal ST to stop the adaptive operation of the echo cancelling circuit 1 by

multiplying monitoring gains G_s and G_m of the variable resistors 4, 5 with the level V_{in} of a reception signal R_{in} of the echo cancelling circuit 1. Thus, the echo cancelling circuit applies adaptive operation while the echo path is in the linear operation.



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